

Dt: 19/11/25

Day - 01

machine learning with Python.

what is programming?

It is a set of instructions are given to machine to perform specific task is called as programming.

what is Programming language?

It is a special language used to write instructions that a computer can understand & execute.

* It is way to communicate with a computer.

Different levels of Programming:

1. Low level programming [Binary programming language]
2. Assembly level programming
3. High level programming

ANSI - American National Standard Institute

Python:

Python is a high-level, interpreted, indented, dynamic, object-oriented programming language.

It is widely used for web development, data science, machine learning, automation, scripting.

Python versions:- by Date wise:

Python 1.0 version - 20-Feb-1991

Python 2.0 version - 16-Oct-2000

Python 3.0 version - 03-Dec-2008.

Features	Advantages	Disadvantages
1. easy to learn & read 2. interpreted language 3. high-level language 4. object-oriented 5. large standard library 6. dynamic typing	1. Beginner friendly 2. fast development 3. Huge community support 4. Rich libraries & frameworks 5. Highly flexible	1. Slower than compiled language. 2. Not ideal for mobile apps 3. consumes more memory. 4. GIL issue.

